ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Devlopment Agency (BRRDA)

FDR

STAE	:-	BIHAR
DISTRICT	:-	SAMASTIPUR
BLOCK	:-	DALSINGHSARAI

NAME OF ROAD :- T03 MDR TO MUSLIM TOLA

TOTAL COST OF CONSTRUCTION	:-	Rs.	452611
TOTAL COST OF PROJCT	:-	Rs.	452611

SUBMITTD BY:-
EXECUTIVE ENGINEER
RWD (W) DIVISION, DALSINGHSARAI
SAMASTIPUR

FDR
YEAR (2020-2021)
GNERAL ABSTRACT OF COST

BLOCK :- ALSINGHSARAI DISTRICT :- SAMASTIPUR

NAME OF ROAD :- T03 MDR TO MUSLIM TOLA

S.NO		ITEM OF WORK						AMOUNT	
A									
	TOTAL COST OF CONSTRUCTION						:-	Rs.	452611
						SUB TOTAL	:-	Rs.	452611

Junior Engineer
RWD (W) Section,Dalsinghsarai

Assistant Engineer
RWD (W)Sub Division,
Dalsinghsarai

Executive Engineer
RWD, Works Division,
Dalsinghsarai

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- T03 MDR TO MUSLIM TOLA

DISTRICT SAMASTIPUR

BLOCK DALSINGHSARAI

S.NO	DESCRIPTION	AMOUNT LAKH
1	E/W	125485
2	GSB	94585.000
3	GR-III	180471.000
	SUB TOTAL:-	400541.000
	12% GST on Total Amount:-	48064.920
	1% lab cess	4005.410
	Total Cost (including GST and Labour Cess	452611.330

04/11/20
Junior Engineer
RWD (W) Section, Dalsinghsarai

4.11.2020
Assistant Engineer
RWD (W)Sub Division, Dalsinghsarai

04.11.2020
Executive Engineer
RWD, Works Division, Dalsinghsarai

Technically Approved for Rs 4,52,611 = or say four Lakh, Fifty Two thousand Six Hundred Eleven Only.

27.01.2021

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
दलसिंहसराय

Cost Estimate for Road Work

FORMAT-6

SL.NO	SDB SL.NO	MORD Ref. No	Description	Unit					Quantity	Rate	Amount
5			**Earth Work**								
			E/W as per specifications and direction of E/L								
				cum	2.00	30.00	1.250	2.100	157.50		
				cum	1.00	26.00	1.500	1.900	74.10		
				cum	1.00	28.50	1.150	1.800	59.00		
				cum	1.00	22.40	1.200	1.850	49.73		
				cum	1.00	19.30	1.750	1.950	65.86		
				cum	1.00	27.50	1.450	1.800	71.78		
				cum	1.00	29.00	1.550	1.950	87.65		
				cum	1.00	18.90	1.100	1.700	35.34		
				cum	1.00	24.60	1.500	1.850	68.27		
			cft						669.22	187.51	125485
5			**GSB**								
			P/V GSB With S/M Grade- I do. Do								
				cum	2.00	120.00	0.375	0.100	9.00		
				cum	2.00	30.00	3.000	0.100	18.00		
				cum	1.00	20.00	3.500	0.100	7.00		
4									34.00	2781.91	94585
			P/V Laying Sperading Compaction Stone GR-III								
				cum	4.00	30.00	3.75	0.075	33.75		
				cum	1.00	80.00	3.00	0.075	18.00		
									51.75	3487.37	180471
										SUB TOTAL=	400541.00
										TOTAL COST OF WORK IN RS	400541.00

Junior Engineer
RWD (W) Section, Bibhutipur

Assistant Engineer
RWD (W)Sub Division, Bibhutipur

Executive Engineer
RWD, Works Division, Dalsinghsarai

ANALYSIS OF RATES

BRICK BAT FILLING.

1. ~~[illegible]~~

Providing brick bats including spreading, laying and packing with C.I. Hammers in layers not exceeding 75MM thick including cost of eight barriers, danger signal, choukidar, taxes, Royalty, etc., all complete job, as per specifications and directions of E/I including cost of bricks, - - - all complete job.

Unit — cum.

Assuming — 2.892 M^3

Cost of Brick bats — 2.892 M^3 @ 1096=00 — Rs 3163=87

~~Mazdoor unskilled~~ Local Sand 0.632 M^3 @ 141=95/M^3 Rs 89=65

Labour (unskilled)

1. Carrying, spreading, laying and packing unskilled labour 1.5 NO @ 287=00 — Rs 430=50

Compaction of brick bats with C.I. Hammers, 0.670 NO @ 287=00 — Rs 192=29.

— Rs 228=98.

Over Head Charge @ 6% on (a+b+c)

Total — 4045=29.

Rate / M^3 — Rs 1428=42 / M3.

Carriage Cost

Carriage for bricks (1 M^3 bat) for 300 NO @ 663=50/M^3 — Rs 199=06

Local sand 0.220 M3 @ 97=00 / M3 — Rs 21=34.

Cost of Local Sand with Royalty @ Rs 141=85 / M3

Total Rs 1648=81.

31=21

Total 1680=0:

2. Granular sub-base, with well Graded Material, Table 400.1 By Mix and place method for Grading II Material all complete job.

Q — 300.0 M^3

Labour — Mate — 0.48 NO @ 305.00 — Rs 146=40

- Mazdoor skilled — 2.0 NO @ 364.00 — Rs 728=00
- Mazdoor unskilled — 10.0 NO @ 287=00 — Rs 2870=00

Machinery

Tractor Mounted Grader 6.0 Hour @ 573=20 Rs 3439=20

Three wheel 80-100 KN static roller 30.0 Hour — @ 803=00/Hour — Rs 24090=00

10 M^3/Hour

Tractor with rotavator 12.0 Hour @ 573=20 — Rs 6878=40

25 M^3/Hour

Water Tanker 6 KL capacity 5.0 H @ 184=00 — Rs 920=00

Total 39072=00

Material

Coarse Graded Granular sub base

53MM to 9.5MM, 35% — 134.40 M^3 @ 604=91/M^3 — Rs 80695=00

9.5MM to 2.36MM 25% 96.00 M^3 @ 514=58/M^3 — Rs 49400=00

2.36MM below Local Sand 153.60 M^3 @ 141=85/M^3 Rs 21788=00

Water 30 KL @ 40=00/KL — Rs 1200=00

Total — 1,92,155=00

Add over Head Charge 6%. 11529=00

Total — 2,04,084=00

Qt — 2,04,024=00
Hence /M3 rate — Rs 680=28/M3

Carriage Cost —
GSB material 0.768 M3 @ Rs 1221=82/M3 Rs 938=35/M3
Local Sand 0.512 M3 @ Rs 97=00/M3 — Rs 49=66/M3
Total — Rs 988=01/M3

Hence final Rate — Rs 1668=20/M3.

Item No-3. Supply of Empty Cement Bag (Synthetic should be old but in good condition of 1.2 cft capacity with carriage; Local Sand with Cost and Carriage, Labour Cost; including cost of Nylon for filling Empty Bag through local sand, laying, stacking properly ... all complete job work as per specification and direction of EIC.

Qty — 100.0 NO.

Old Empty Cement /EC Bag 100.0 NO @ 4=07/Bag — Rs 407=00
Stitching Jali Nylon — 2 NO @ 30=00/NO Rs 60=00
Un skilled Labour for filling Stacking — 1.67 NO @ 287=00 Rs 479=29
Un skilled Labour for Carrying and placing — 3.0 NO @ 287=00 Rs 861=00
Skilled for Stitching — 0.33 NO @ 364=00 Rs 120=12
Carriage Cost for Empty Cement Bag 100 NO — 100x1.2 @ 113=23/NO Rs 11=32 (35.31)
Total — 1938=73

Cost of Local Sand
$\frac{100\times1.2}{35.31}$ = 3.399 M3 @ Rs 141=05/M3 — Rs 482=14.
Hire Charge of machine — 0.332 Hour @ 50=00/Hour — Rs 16=60
Total — Rs 2437=47

Add 6% O.H.C — Rs 146=24
2583=71
Hence Rate/ Bag — Rs 25=84
Carriage Cost for / Bag sand 0.034 M3 @ 97=00/M3 Rs 3=30
Rs 29=14/Bag.

Item No-4. Providing W.B.M Grade III ... all complete job through Mechanical means.

Unit — /M3 RATE ANALYSIS
Taking out put — 360 Cum.
LABOUR.

Mate — 0.68 NO @ 305=00 — Rs 207=40
Skilled Mazdoor — 2.0 NO @ 364=00 Rs 728=00
Un Skilled Mazdoor — 15.0 NO @ 287=00 Rs 4305=00

6. Constructions of Road Embankment Material obtain from Borrow pits. ... all complete as per Clause 300.1, 300.2, with lead up to 1000.0m. – Out put – 100.0M

Mate — 0.04 No @ 305=00 — Rs 12=20
Unskilled — 1.0 No @ 287=00 — Rs 287=00

Machinery

Hydraulic excavator 0.9 M3 bucket @ 60 M3/Hour — 1.67 H @ 1969=20 — Rs 3288=56
Tipper 5.5 cum with 10t capacity — 4.50 H @ 1043=00 Rs 4693=50
10% for carriage by Tipper — Rs 469=35

Dozer D-50 for spread (100 M3/Hr) — 0.50 @ 3337=90 Rs 1668=95
Tractor mounted Grader — 1.0 Hr @ 573=20 — Rs 573=20
Water Tanker 6 KG capacity 2.0 Hrs @ 184=00 — Rs 368=00
Three wheel Roller 80-100 KN — 1.25 H — 803=00 Rs 1003=75
Static Roller @ 80 M3/Hr — 100.0 M3 @ 34=81 Rs 3481=00
Compensation of Earth — @ 40=00 Rs 400=00
Water R2. along — Total Rs 16325=51
Add O.H.C 6% — Rs 979=5?
17306=0?

Rate 173=06/M3.

Item 7. Labor for cutting 62MM to 75MM dia Bamboo, piles to size and making shoes and driving etc ... all complete no.
Out put – 30.5M
Assuming 20 No pile shunk 1.525 M deep

Labor.
Carpenter Grade II — 0.25 No @ 345=00 — 86=25
Unskilled Mazdoor — 2.5 No @ 287=00 — 717=50
803=75
Add Over Head 6% — Rs 48=22
851=97

Item 8. Labour for fixing and @ 28=40/metre. fixing 62MM to 75MM dia bamboo runners in position at every vertical pile with 150 MM long nails & 38 gauge 0.9 wire ... all complete
Out Put – 30.5M —
Nails 150MM long — .5 Kg @ 55=84 — 27=92
Carpenter gr. II — .125 No @ 345=00 — 43=13
Unskilled Mazdoor — 0.25 No @ 287=00 — 71=75
142=80
Add over Head charge 6% — 8=57
Hence Rate — 4=96 / metre.

Machinery

Tractor Mouted Grader for grading 14.40 — 573=20
@100 M3 / Hour

Three wheel Roller 80-100KN static 45.0Hr @ 803=00
Water Tanker 6KG capacity — 24.0 Hr @ 184=00

Materials

Grading 53 MM to 22.4 MM @0.9 M3 - 435.6 M3 @571=44 Rs
Stone screening Type B 11.2MM — 86.40 M3 @397=73 Rs 3436
Water 144 KG @40 — Rs 5760
Over Head Charge 6% — 19019

- Total 335969

Say 933=25/M3

Carriage

Stone Aggregate 1.21 M3 @
Stone Screening - 0.24 M3 @

Total — /M3

5.

WBM Gr II

Mate . 63 No @ 305=00 — 207=40
Skilled 2.0 No @ 364=00 — 728=00
Unskilled 15.0 No @ 287=00 — 4305=00
Tractor mouted grader 14.40 Hour @ 573=20 — 8254=00
Three wheel Roller - 45.0 @ 803=00 - 36135=00
Water tank 6Kg — 24.0 @ 184=00 — 4416=00

- Material

Grading II — 435.40 M3 @ 427=69 — 186302=00
63MM to 45MM
Stone Screening Type B 96.0 M3 @ 345=22/M3 — 33145=00
Binding material Morum - 28.80 M3 @ 131=28 — 3781=00
Water — 144 Kg @ 40=00 — 5760=00

Total ~~253,033=40~~

Add O.H.C 6% 15182=00

~~268215=00~~

Hence Rate — ~~745=04/M3~~

Total — 283,033=40
Add Overhead 6% — 16982=00

Rs 3,00015=00

Hence Rate / M3 — Rs 833=37/M3

Carriage —

Stone Aggregate — 1.24 M3 @ Rs
Screening Material — 0.27 M3 @
Morum — 0.08 M3 @

कार्यालय
कार्यपालक अभियंता, ग्रामीण कार्य विभाग
कार्य प्रमंडल, समस्तीपुर।

पत्रांक ..01 Dalsinghsarai..... दिनांक ..25.1.21.....

प्रेषक, **कार्यपालक अभियंता,**
ग्रामीण कार्य विभाग,
कार्य प्रमडल, समस्तीपुर।

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमडल, दलसिंहसराय।

विषय– **FDR योजनान्तर्गत कराये गये कार्य का जॉच करने के संबंध में।**

प्रसंग– आपका पत्रांक 01, Camp Dalsinghsarai दिनांक 22.01.2021.

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के संबंध मे कहना है कि एफ0डी0आर0 योजनान्तर्गत स्थल के जॉचोपरांत जॉच कर वापस की जाती है।

अनु0– यथोक्त।

विश्वासभाजन
25.1.21
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल,समस्तीपुर।

कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय

ग्रामीण कार्य विभाग, कार्य प्रमंडल, दलसिंहसराय द्वारा कराए गये पथों की जाँच से संबंधित प्रतिवेदन

क्र0सं0	पथ का नाम	क्षतिग्रस्त भाग (मी0 में)	कराए गये कार्य	कराए गये निर्माण कार्य की राशि (रू0 में)	GST @12%	L.Cess@1%	S.Fee@10%	Total	अभ्युक्ति
1	2	3	4	5	6	7	8	9	10
1	Flood Damage Repair of Road L036 to Jhaura	E/W- 70.0M Brick Bat- 110.0M	E/W, Brick Bat.	5,76,213=00	69,146=00	5762=00	——	6,51,121=00	पूर्ण
2	Flood Damage Repair of Bridge in Bibhutipur Block Across Budhi Gandak River near Mahti	E/W- 408.0M GSB- 210.0M + Brick Bat	E/W, Brick Bat, G.S.B.	30,71,219=00	3,68,546=00	30,712=00	——	34,70,500=00	पूर्ण
3	Flood Damage Repair of Road T03 MDR to Muslim Tola	300.0M	GSB, WBM III, E/work	4,00541=00	48065=00	4005=00	——	4,52,611=00	पूर्ण
4	Flood Damage Repair of Road L036 to Tola Par	E/W- 527.0M Brick Bat- 1400.0M	E/work, Brick Bat	8,48,183=00	1,01800=00	8500=00	——	9,59,500=00	पूर्ण
5	Flood Damage Repair of Road L038 to Dakshin Tola	E/W- 450.0M Brick Bat- 2000.0M	E/W, Brick Bat.	12,03,390=00	1,44,400=00	12,000=00	——	13,62,600=00	पूर्ण
6	Flood Damage Repair of Road Lagma to Musapur Bahadurpur Amrauli	E/W- 742.0M Brick Bat- 1500.0M	E/work Brick Bat	19,14910=00	2,29,800=00	19,100=00	——	21,67,800=00	पूर्ण
7	Flood Damage Repair of Road L036 to Sahni Tola	E/W- 159.0M Brick Bat- 874.0M	E/work. Brick Bat	5,49,778=00	65,400=00	5400	——	6,20,700=00	पूर्ण
8	Flood Damage Repair of Road Saakh Mohan to Mallika Tola Shayam Batta	Bamboo Pile- 445.0M Brick Bat 190.0M Sand Bag Pile- 215.0M	Bamboo Pile, Brick Bat G.S.B.	5,59177=00	67,100=00	5600.0	——	6,31,900=00	पूर्ण
9	Flood Damage Repair of Road Raghopur to Khuria Tola	400.0M.	Bamboo Pile, Brick Bat, GSB	15,68,359=00	1,88,203=00	15,684=00	——	17,72,246=00	पूर्ण
10	Flood Damage Repair of Bridge in Bibhutipur Block Across Karak on river Budhi Gandak	Brick Bat- 152.0M GSB- 152.0M	Brick Bat G.S.B.	9,74452=00	1,16,934=00	9745=00	——	11,01,131=00	पूर्ण

जाँच किया, संतोषप्रद पाया।

25.1.21
EE
EE RWD Samastipur

22/1/21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दलसिंहसराय